

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: July 6, 2005

Inspector: Diana Walden

Location: 115 kV Underground Route

Storm/

Rain Event: The area received 0.98" of rain over 6/30-7/1 and 0.29" on the day of inspection. This total is likely higher in our location based on direct observation.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction Bethel Educational Park, Bethel	<ul style="list-style-type: none"> - Trenching and ductwork/ installation has begun in the Bethel Educational Park under the existing ROW. Portions of active work are located coming into and leaving the school grounds. 7/6/05 - Contractors are putting in effort to make sure the areas are cordoned off with safety fence and caution tape. 7/6/05 - A vault had been installed in front of the Bethel Middle School. 7/6/05 	<ul style="list-style-type: none"> - Some erosion controls in this area require repair. See erosion control, dewatering and storage sections for more specific information. 7/6/05 - The area had been backfilled and graded for now. 7/6/05
Gallows Hill Road and Rt. 107 Lonetown Rd, Redding	<ul style="list-style-type: none"> - Ductwork/installation is ongoing on Gallows Hill Road. 7/6/05 - Active work was not observed during the inspection again due to reports of inclement weather. Most areas were shut down for the day. 7/6/05 	<ul style="list-style-type: none"> - Activities seem contained on the roadway for the most part but a few issues require some attention. See erosion control, and storage sections for more specific information. 7/6/05

Areas of Inspection	Observation	Recommended Action
Rt. 107 Putnam Park Road portion and Rt. 58, Redding	<ul style="list-style-type: none"> - Again most areas were closed down for the day due to reports of bad weather. - A vault is being installed in the shoulder of Rt. 58 to the north of Putnam Park. The vault is in but needs flow fill and cover. Some erosion control will be necessary here. 7/6/05 	<ul style="list-style-type: none"> - Activities are fairly well contained to the roadway. See the erosion control section for more information on the vault installation. 7/6/05
Broad Street and Rt. 7 , Norwalk	<ul style="list-style-type: none"> -The ductwork in the ROW is complete and installation has continued into Broad Street. 7/6/05 - Trenching continues in several locations along the roadway Rt. 7. 7/6/05 	<ul style="list-style-type: none"> -Activities are well contained to the roadway. None at this time. 7/6/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - For the most part, silt fence has been well installed in all locations where the work is located adjacent to wetlands. 7/6/05 - Stockpiles are not currently present for the most part. All excavated roadway material is currently being trucked off site for disposal or stored temporarily. 6/22-7/6/05 	<ul style="list-style-type: none"> - A few more areas require maintenance as soon as possible. Continue to be proactive in maintenance as necessary. See below for site-specific issues. 7/6/05

Areas of Inspection	Observation	Recommended Action
Bethel Educational Park	<ul style="list-style-type: none"> - Ductwork has entered the Park near the Ralph Johnson School under the ROW. Silt fence is in place along the edge but several boulders have rolled against the fence and caused some strain. 7/6/05 	<ul style="list-style-type: none"> - Keep the controls in good repair and pull back boulders or soil which may strain the fence. 7/6/05
	<ul style="list-style-type: none"> - Ductwork continues in the ROW near the Bethel Middle School. Stockpiles have overtopped the silt fence here in several locations and a steep grade is located below. 7/6/05 	<ul style="list-style-type: none"> - The contractor will install additional fence behind the piles to keep them contained. Spoil piles will be placed on the other side of the ROW once it is feasible. 7/6/05
	<ul style="list-style-type: none"> - The silt fence further along the ROW has several spots where it has not been toed in although riprap present here may provide some filtration. 7/6/05 	<ul style="list-style-type: none"> - Silt fence should be toed in these locations unless the riprap is shown to filter out all sediment 7/6/05
	<ul style="list-style-type: none"> - The area cleared for the transition structure here could use additional silt fence (check dams) to prevent erosion down the grade. 7/6/05 	<ul style="list-style-type: none"> - Install a check dam of silt fence across the top of grade on the larger cleared area to prevent erosion. 7/6/05
Hoyts Hill Road (Off Rt. 58)	<ul style="list-style-type: none"> - The pull-off leading to the transition station across from Hoyts Hill Rd is being cleared and a gravel access road has been built. Mulch/chips from the clearing has been placed in a wetland area over the silt fence. 7/6/05 	<ul style="list-style-type: none"> - Now that the area is confirmed as wetland, the mulch/chip pile will be removed by hand. 7/6/05
	<ul style="list-style-type: none"> - The chip blower was also directed to a wetland area across the access road. 7/6/05 	<ul style="list-style-type: none"> - The blower was redirected to an upland area at the time of the inspection. 7/6/05
	<ul style="list-style-type: none"> - Excavation was occurring in the ROW off Hoyts Hill but this work is not part of the current 115kV. 7/6/05 	<ul style="list-style-type: none"> - Silt fence is in place but work is right up to the wetlands. 7/6/05

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Route 58	<ul style="list-style-type: none"> - The vault installation here could use some additional silt fence as it is at the base of a steep grade cut. 7/6/05 - Work is just beginning along Rt. 58 and fence along this roadway should be monitored. 6/29-7/6/05 	<ul style="list-style-type: none"> - Silt fence placed on the grade above the vault as a check dam should help prevent erosion of the slope and sedimentation to the vault. This area should be restored and stabilized. 7/6/05 - Be proactive in silt fence maintenance and repair. 7/6/05
Rt. 58 and Rt. 107 Putnam Park Road portion, Redding	<ul style="list-style-type: none"> - The silt fence in disrepair at the intersection of Rt. 58 and Rt. 107 belongs to the work at Putnam Park. The trench has not come through this area yet. 7/6/05. - Active work in the lot for Putnam Park is part of a separate park project and materials are no longer being stored for the 115kV project here. 7/6/05 	<ul style="list-style-type: none"> - None at this time. 7/6/05 - Separate active work on the park is ongoing and they are responsible for maintaining controls here. 7/6/05
Gallows Hill Road and Rt. 107 (Lonetown Rd)	<ul style="list-style-type: none"> - One area of fence near #116 Gallows Hill has been pushed over and sediment has overtopped. Some sediment was noted in the wetland beyond due to run off from the roadway. 7/6/05 	<ul style="list-style-type: none"> - Active work is not located in the vicinity but a vault was installed here and the pull off with stone piles remains. The soil is not fully stabilized. The sediment beyond the fence is minor and would be more damaging to remove, but the fence should be repaired ASAP. 7/6/05.

Areas of Inspection	Observation	Recommended Action
Gallows Hill and Lonetown Rd. continued	<ul style="list-style-type: none"> - The eroded asphalt at the edge of the trench had been repaired. 7/6/05 - The original pull-off area has some sedimentation that occurred along the roadway shoulder. 7/6/05 - The area along Rt. 107 near the Redding Country Club pond still requires repair of the silt fence. It has come “untoed” and ripped down. 6/15-7/6/05 - Another section of silt fence at the intersection of Rt. 107 and Gallows Hill should also be toed in where stormwater has flowed through. 7/6/05 	<ul style="list-style-type: none"> - None at this time. 7/6/05 - A check dam should be installed from the original silt fence to the edge of the road to prevent the sediment from entering a swale here. 7/6/05 -Active work is coming this way and silt fence should be repaired/toed prior to trench work in both of these areas. 7/6/05
	<ul style="list-style-type: none"> - Ductwork in the ROW is complete and silt fence is well in place. Ductwork now continues into the shoulder of Broad Street. 7/6/05 - Several locations along Rt. 7 are being trenched at this time but almost all adjacent areas are of commercial development. 6/22-7/6/05 	<ul style="list-style-type: none"> - None at this time. 7/6/05 - None at this time. 7/6/05
Contaminated Soils	<ul style="list-style-type: none"> - Contaminated soil is being stored and labeled separately from that considered “background polluted” and both types are eventually brought off site to an O&G facility in Bridgeport. Water from contaminated soils are sent to a tank truck. - Occasionally, soils are being stored temporarily at Redding Yard until they are trucked to Bridgeport. 7/6/05 	<ul style="list-style-type: none"> - It should be determined whether the “polluted” soils exceed the levels approved as daily cover for the landfill if the Town of Redding is still interested in obtaining it. 6/22-7/6/05
Adjacent Wetlands and Waterways	<ul style="list-style-type: none"> -With the exception of the small amount of sediment which overtopped the silt fence on Gallows Hill, no sedimentation or turbidity have been noted in the 	<ul style="list-style-type: none"> -The amount of sediment is very minor and would be more disruptive to remove at this point. The fence should be repaired ASAP. 7/6/05

Areas of Inspection	Observation	Recommended Action
	<p>wetland resource areas adjacent to the roadway. 7/6/05</p> <p>- The mulch and chips noted in the wetlands near the Hoyts Hill transition structure location should be removed by hand. 7/6/05</p>	<p>- Mulch and wood chips or fill of any kind should not be placed in wetland areas. 7/6/05</p>
<p>Staging, Storage, and Parking Areas</p>	<p>- The original pull-off on the side of Gallows Hill Rd still has silt fence is well in place but sediment has washed to the shoulder of the roadway where the fence does not cover. 7/6/05</p> <p>- A second Gallows Hill pull-off near the completed vault #15 installation has some stone and trench components stored here. 6/22-7/6/05</p> <p>- Also on Gallows Hill Rd. equipment is parked to the side of the road on Drummer Lane. 7/6/05</p> <p>-In the vicinity of #58 Gallows Hill, trench boxes and some equipment had been placed in the woods off the road. The area was not an established pull-off. 7/6/05</p> <p>- In Redding Town Yard, soil excavate is only temporarily stored here until it can be trucked for disposal in the O&G facility in Bridgeport. Soil considered “background polluted” is kept separately from that considered contaminated. The soil piles here are not very large at this time. 6/22-7/6/05</p> <p>- Concrete washouts are also taking place within the yard in a specified location. 6/22-7/6/05</p> <p>- The Putnam Park parking lot</p>	<p>- A check dam of fence or haybales should be extended to the roadway here. 7/6/05</p> <p>- The area should be cleaned up when feasible, especially since sediment overtopped the adjacent roadway silt fence here. 7/6/05</p> <p>-None</p> <p>- Equipment and materials should not be stored in wooded areas unless it is designated for storage. 7/6/05</p> <p>- There are no current issues but if the piles progress beyond the bins, haybales should be placed downgradient of the pile unless this is in the way of active equipment movement. 7/6/05</p> <p>- The washout area continues to be well contained. It should be emptied regularly to prevent escape of the wash water. 7/6/05</p> <p>- The park project is</p>

Areas of Inspection	Observation	Recommended Action
Storage Areas continued	<p>is no longer being used due to active work on behalf of the park. 7/6/05</p> <p>- A new equipment storage area for the Putnam Park area materials is located at a pull-off on Route 58 just north of the Rt. 107 intersection. 7/6/05</p> <p>- A storage area for materials, conduit and equipment has been identified at the Bethel Educational Park near the RTJ School. 7/6/05</p>	<p>responsible for controls in this area. 7/6/05</p> <p>- None at this time 7/6/05</p> <p>- None at this time- well contained. 7/6/05</p>
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-No significant clearing has been necessary along the roadways at this time with the exception of some minor ground cover disturbance and some trimming. 7/6/05</p> <p>- Some of the completed vault areas could use additional temporary stabilization as cuts were made in the adjacent grades. 7/6/05</p> <p>- Two larger red oaks were cut and chipped at the Putnam Park intersection. The alignment of the trench required this. 7/6/05</p> <p>-Clearing in the ROW has taken place within the Bethel Educational Park to prepare for trenchwork 7/6/05.</p> <p>- Clearing was also necessary at the Hoyts Hill transition station location. Some clearing had to occur in an adjacent wetland area due to the alignment of the trench. 7/6/05</p>	<p>- When ground cover removal is necessary along the sides of the roadway, the areas will be restored and reseeded following the work. 7/6/05</p> <p>- Any bank cuts should be temporarily restored and mulched until the trench crews arrive in the area. Impacts to tree roots should be avoided when possible. 7/6/05</p> <p>- The trees will be replaced with 10-12 smaller diameter trees following the work. 7/6/05</p> <p>- Areas here should be revegetated appropriately when work is completed 7/6/05.</p> <p>- The issues with mulch blower placement and mulch piles in this location has been discussed. 7/6/05</p>
	- Almost all dewatering discharge	- It is still to be determined if

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Dewatering	<p>along the route is being directed to the tank trucks due to concerns about the polluted soils. 7/6/05</p> <p>- Dewatering had been necessary at the vault installation along Rt. 58 and the water was also directed to a truck. 7/6/05</p>	<p>problem levels are present in water from polluted soils in some areas and whether the water can be released to an approved dewatering corral. It would be best to allow the water to recharge to the wetlands here if “pollution” levels are not above the approved limits. 6/15-7/6/05</p> <p>NU was looking into testing the water to make this determination. 6/22-7/6/05</p>
Blasting	- No blasting is occurring in any areas at this time.	- None at this time.
Spills and Material Storage	<p>-Leaks were not noted from the machinery during this inspection. A report of any leaks or spills that reach the ground and occur during the week will be provided to BSC from internal project inspectors 6/15-7/6/05</p>	<p>- The contractors should remain vigilant about securing and handling fuel containers.</p> <p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</p> <p>- Check equipment status on a regular basis and keep spill kits on hand.</p> <p>- Report spills immediately, even if they are being controlled.</p>
Additional Observations		

Next likely scheduled inspection:

Thursday, July 14, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature:

Diana Walden



115 kV (Broad Street-Norwalk): Ductwork has been completed in the ROW and is now occurring in the roadway shoulder of Broad Street. 7/6/05



115 kV (Gallows Hill Road, Redding): Trench boxes and equipment were placed off the roadway in the woods. This should be limited to designated pull-off areas. 7/6/05



Silt fence in need of repair ASAP in the vicinity of #116 Gallows Hill Road. Stormwater has overtopped the fence and deposited some sediment beyond. 7/6/05



Some sedimentation has occurred along the roadway shoulder at the designated pull-off on Gallows Hill. Silt fence or haybales should be extended to the road. 7/6/05



115 kV (Route 107, Redding)- View of the recent vault installation along Lonetown Rd. The area still requires temporary stabilization. 7/6/05



View of the trench turning the corner from Putnam Park Rd (Rt. 107) to Lonetown Rd. (Rt. 107).



115 kV (Route 107, Putnam Park Redding)- Two larger red oaks were removed from the Putnam Park area for the trench alignment. They will be replaced by several smaller trees. 7/6/05



115 kV (Route 58, Redding): Ongoing vault installation off road shoulder. Silt fence could be installed along the base of the slope to prevent erosion. 7/6/05



Work within the ROW at Hoyts Hill Road but not associated with the current 115kV project. Silt fence is in place. 7/6/05



115kV (Hoyts Hill Road Transition): Vegetative clearing and a temporary road built to access the Hoyts Hill Transition station. 7/6/05



115kV (Bethel Educational Park) View of where the underground work will end in the ROW at a transition structure.



View of the cleared area within the existing ROW in preparation for the underground work. 7/6/05



View of the ductwork installation within the Bethel Educational Park ROW. The silt fence in this area has been overtopped by the excavate and must be repaired ASAP. 7/6/05



View of the recent vault installation in front of the Bethel Middle School. The lawn will be restored.



View of the ROW as it comes into the Bethel Educational Park. Ductwork/installation has begun in this area. 7/6/05